	ertify that this correspondence is being filed via with the United States Patent and Trademark Office
	October 30, 2009
TOWNSE	END and TOWNSEND and CREW LLP
Ву:	/Shannon O' Connor/
	Shannon O'Connor

Attorney Docket No.: A7600P1/T51700 TTC No.: 016301-051700US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hemant P. Mungekar et al.

Application No.: 10/660,813

Filed: September 12, 2003

For: REACTIVE ION ETCHING FOR

SEMICONDUCTOR DEVICE FEATURE TOPOGRAPHY

MODIFICATION

Customer No.: 57385

Mail Stop Issue Fee Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Confirmation No.: 7055

Examiner:

Rodney Glenn McDonald

Art Unit:

1795

TRANSMITTAL LETTER – RESPONSE TO SUPPLEMENTAL NOTICE OF ALLOWABILITY

Pursuant to the Supplemental Notice of Allowability, dated September 30, 2009, enclosed are the following to be made of record in the above-identified application:

- 1) Utility Patent Application Transmittal (as filed 9/12/09);
- 2) Combined Declaration and Power of Attorney (as filed 9/12/09);
- 3) Application Data Sheet (as filed 9/12/09);
- 4) Transmittal of New Application (as filed 9/12/09);

Hemant P. Mungekar et al. Application No.: 10/660,813

Page 2

The Commissioner is hereby authorized to charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to Deposit Account No. 20-1430.

Respectfully submitted,

/Jason A. Sanders/

Jason A. Sanders Reg. No. 59,984

Customer No. 57385

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, Eighth Floor San Francisco, California 94111-3834 Tel: 415-576-0200

Fax: 415-576-0300

J7S:seo

62289967 v1

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. A8067/T51700 First Inventor Mungekar, Hemant P. REACTIVE ION ETCHING FOR SEMICONDUCTOR

DEVICE FEATURE TOPOGRAPHY MODIFICATION

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Only	for new nononavisional went to	cations under 37 C	FR 1.53(b))	Express Ma	il Label No.	EV34	111016245	
APPLICATION ELEMENTS See MPEP chapter 600 concerning design patent application contents.				ADD	RESS TO	Commi P.G. Box		
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) 2. Applicant claims small entity status. See 37 CFR 1.27. 3. Specification (Total Pages 32) (preferred arrangement set forth below) - Descriptive titls of the Invention - Cross Reference to Related Applications - Statement Regarding Fed appropriate R & O - Reference to sequence fisting, a table, or a computer program listing appendix - Background of the Invention				8. Nuc (# a a b. S; i. ii.	Alexandria, VA 22313-1450 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. paper number of pages c. Statements verifying identity of above copies ACCOMPANYING APPLICATIONS PARTS			
	- Brief Summary of the Inve - Brief Description of the Or - Detailed Description - Claim(s)	ກວິຊິດກ		9. 🛭 10. 🗆	37 CFR 3.7	nt Papers (co 73(b) Statem s <i>is an assig</i> i		
	- Abstract of the Disclosure			17.	English Tra	anslation Doc	cument (if applicable)	
	Drawing(s) (35 U.S.C.11 ined Declaration and PO	• • • • • •	ets 12 al Pages 4	1 12 🔲		Disclosure (IDS)/PTO-1	Copies of IDS 449 Citations	
N.	7			13. 🗆		Amendmen		
a. 2 ව. [The second and a second transfer	1.5	. Am ilms	14. 🛛	14. Return Receipt Postcard (MPEP 503)			
لياء ليس	Gopy from a prior appli (for a continuation/divi			15.	(Should be specifically itemized) 15. Certified Copy of Priority Document(s)			
3.1			a completea)		(if foreign priority is claimed)			
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).				16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent				
	polication Data Sheet. Se		****	17. □	Other:			
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76; Continuation Divisional Continuation-in-part (CIP) of prior application No.: 10/279.961 Final application information: Examiner Not yet assigned Art Unit: 1762 For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an cath or declaration is supplied under Box Sb, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.								
***************************************	The state of the s			NOENCE AD	***************************************	ted from the s	submitted application parts.	
☐ Custo	mer Number			The same and the s		OR 🖫	Correspondence address below	
***************************************	Patent Counsel, M/S 2	061		Property of the same of a first of the same			······································	
Name	Applied Materials, Inc.				***************************************	***************************************		
4 <i>daress</i>	Legal Affairs Department							
40th 622	P.O. Box 450A		· · · · · · · · · · · · · · · · · · ·					
City	Santa Clara		State	<u>ea</u>	2	Zip Code	95052	
Country		Telep	nore,	Z	F	² ax		
Name (Print/Type) Robert W. Mulčahý Rei			Registration	No. (Attorne	y/Agent)	25,436		
Signature		4/1/20	16.	1. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Oate	SEPT. 12, 2003	

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTC to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed form to the USPTC. Time will vary depending upon the individual makes in complete, including gastreling, preparing, and submitting disconnected form to the boar LC. Time was vary depending sport are manuscased and comments in the amount of time you require to complete this/form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND TO: Commissioner for Patents, Mail Stop Physiol Application 2.

PEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, Mail Stop Physiol Application 2.

Alexandria, VA 22313-1450, 60833271 v1. If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below na	med inventor, I hereby declare that:
This declaration	on is of the following type:
[] [] [X]	original divisional continuation continuation-in-part
	INVENTORSHIP IDENTIFICATION
original, first a	post office address and citizenship are as stated below next to my name. I believe I am the and sole inventor (if only one name is listed below) or an original, first and joint inventor (if re listed below) of the subject matter which is claimed and for which a patent is sought on the led:
	TITLE OF INVENTION
REACTI	VE ION ETCHING FOR SEMICONDUCTOR DEVICE FEATURE TOPOGRAPHY MODIFICATION
	SPECIFICATION IDENTIFICATION
The specificati	on of which:
	is attached hereto was filed on, under Application No, executed on ever date herewith; or [] Express Mail No (as Application No. not yet known) and was amended on (if applicable) was described and claimed in PCT International Application No filed on and as amended under PCT Article 19 on
	and as amenated trades 1 of Particle 19 bit
AC	KNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
I hereby state the claims, as a	nat I have reviewed and understand the contents of the above-identified specification, including imended by any amendment referred to above.
	the duty to disclose all information I know to be material to patentability in accordance with of Federal Regulations, §1.56,
and which is m likelihood that to issue as a pa	aterial to the examination of this application; namely, information where there is a substantial a reasonable Examiner would consider it important in deciding whether to allow the application tent, and
the party	In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application (s for patent or inventor's certificate or of any PCT international application(s) designating at least one country of the thought the United States of America Living Indiana.	ý
other than the United States of America listed below, and have also identified below any foreign application(s for patent or inventor's certificate or any PCT international application(s) designating at least one country othe than the United States of America filed by me on the same subject matter having a filing date before that of th	r
application(s) of which priority is claimed.	

	[] No such applications have been filed.					
	[] Such applications have been filed as follows:					
Α.	Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119					
	Сош	ntry/PCT	Application No	Date Filed	Pric	ority Claimed
					,	Yes [] No Yes [] No Yes [] No
В.	All for U.S. a	reign applic pplication	ation(s), if any, filed mor	e than 12 mos. (6 n	os for design) p	prior to this
	Count Applic Filing	ation No:				
			PRIORITY CLA	AIM (35 U.S.C. §12	0)	
PCT ir as the sin the rediscloss substar applica	iternation subject in manner pale informatial like still to into it in	nal application atter of eace rovided by lation that is lihood that a suc as a p	under Title 35, United S on(s) designating the Un h of the claims of this app the first paragraph of Titl material to the examinati a reasonable Examiner wo atent) which occurred be nal filing date of this app	ited States of Americation is not discless. United States (ion of this applicational consider it impostes the filing date.	ca that is/are list osed in that/thos Code, §112, I ac on (namely, info ortant in decidin	ted below and, insofar se prior application(s) knowledge the duty to rmation where there is g whether to allow the
	[] [X]		pplications have been file ications have been filed,			
	4 180 %		ymigi im. :		Status	······
		<u>ation No</u> . 79,961	Filing Date 10/23/2002	<u>Patented</u>	Pending X	Abandoned

POWER OF ATTORNEY

Thereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa	Registration No. 25,610
Joseph Bach	Registration No. 37,771
Loretta A. Peters	Registration No. 43,855
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Robert C. Colwell	Registration No. 27,431
William L. Shaffer	Registration No. 37,234
Chun-Pok Leung	Registration No. 41,405
Patrick R. Jewik	Registration No. 40,456
Kent J. Tobin	Registration No. 39,496
Patrick M. Boucher	Registration No. 44,037

Send correspondence to: Direct telephone calls to:

Patent Counsel, MS/2061 Legal Affairs Dept. Applied Materials, Inc. Patrick M. Boucher (303) 571-4000

P.O. Box 450A

Santa Clara, CA 95052

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or first inv	entor: HEM	ANT P. MUNGEKA	R		
Inventor's signature:	phungh	200	Date:	09/10/03	******
		Country of Citiz	enship:	India	
Full name of second invento	r: ANJANA M.	PATEL.			
Inventor's signature:	Ampale		Date:	09/10/03	
	<i>†</i>	Country of Citiz	enship:	United States	
Full name of third inventor:	MANOJ VEL	LAIKAL			
Inventor's signature:	mulay ve	ellen Ref	_ Date:	9/11/03	
	U	3			

Full name of fourth inventor: ANCHUAN WANG

Inventor's signature: Anchuan WANG

Country of Citizenship: Peoples Republic of China

Full name of fifth inventor: BIKRAM KAPOOR

Inventor's signature: Date: 9/11/03

Country of Citizenship: India

(Declaration ends with this page)

60033306 v l

Application Data Sheet

Application Information

Application Type:: Regular

Subject Matter:: Utility

Title:: REACTIVE ION ETCHING FOR

SEMICONDUCTOR DEVICE FEATURE

TOPOGRAPHY MODIFICATION

Attorney Docket Number:: A8067/T51700

Request for Early Publication:: No

Request for Non-Publication:: No

Total Drawing Sheets:: 12

Small Entity?:: No

Petition included?:: No

Secrecy Order in Parent Appl.:: No

Applicant Information

Applicant Authority Type:: Inventor

Primary Citizenship Country:: India

Status:: Full Capacity

Given Name:: Hemant

Middle Name:: P.

Family Name:: Mungekar

City of Residence:: San Jose

State or Province of Residence:: CA

Country of Residence:: US

Street of Mailing Address:: 515 Boynton Ave, Apt 29

City of Mailing Address:: San Jose

State or Province of mailing address:: CA

Country of mailing address:: US

Postal or Zip Code of mailing address:: 95117

Applicant Authority Type:: Inventor

Primary Citizenship Country:: US

Status:: Full Capacity

Given Name:: Anjana

Middle Name:: M.

Family Name:: Patel

City of Residence:: San Jose

State or Province of Residence:: CA

Country of Residence:: US

Street of Mailing Address:: 2178 ShadowRidge Way

City of Mailing Address: San Jose

State or Province of mailing address:: CA
Country of mailing address:: US

Postal or Zip Code of mailing address:: 95138

Applicant Authority Type:: Inventor

Primary Citizenship Country:: US

Status:: Full Capacity

Given Name:: Manoj
Family Name:: Vellaikal

City of Residence:: Santa Clara

State or Province of Residence:: CA

Country of Residence:: US

Street of Mailing Address:: 3707 Poinciana Drive, #68

City of Mailing Address:: Santa Clara

State or Province of mailing address:: CA
Country of mailing address:: US

Postal or Zip Code of mailing address: 95051

Applicant Authority Type:: Inventor

Primary Citizenship Country: Peoples Republic of China

Status:: Full Capacity

Given Name:: Anchuan

Family Name:: Wang

City of Residence:: Fremont

State or Province of Residence:: CA

Country of Residence:: US

Street of Mailing Address:: 46728 Crawford Street, #6

City of Mailing Address:: Fremont

State or Province of mailing address:: CA
Country of mailing address:: US

Postal or Zip Code of mailing address:: 94539

Applicant Authority Type:: Inventor

Primary Citizenship Country:: India

Status:: Full Capacity

Given Name:: Bikram
Family Name:: Kapoor

City of Residence:: Santa Clara

State or Province of Residence: CA

Country of Residence:: US

Street of Mailing Address:: 2138 Santa Cruz Avenue

City of Mailing Address:: Santa Clara

State or Province of mailing address:: CA

Country of mailing address:: US

Postal or Zip Code of mailing address: 95051

Correspondence Information

Name Line One:: Patent Counsel, M/S 2061

Page 3 Initial 9/5/03

Name Line Two:: APPLIED MATERIALS, INC.

Address Line One:: Legal Affairs Department

Address Line Two:: P.O. Box 450A

City:: Santa Clara

State or Province:: CA

Postal or Zip Code:: 95052

Telephone:: 650-326-2400 Fax:: 415-576-0300

Representative Information

Representative Designation:: Representative Number:: Representative Name::

Primary 37,234 William L. Shaffer
Primary 25,610 Peter J. Sgarbossa

Primary 37,771 Joseph Bach

Primary 43,855 Loretta A. Peters

Primary 37,165 Raymond Kam-On Kwong

Primary 35,412 James C. Wilson
Primary 25,436 Robert W. Mulcahy
Primary 27,431 Robert C. Colwell
Primary 41,405 Chun-Pok Leung
Primary 40,456 Patrick R. Jewik

Primary 39,496 Kent J. Tobin

Primary 44,037 Patrick M. Boucher

Domestic Priority Information

Application:: Continuity Type:: Parent Application:: Parent Filing Date::

This Application Continuation-in-part of 10/279,961 10/23/02

Assignee Information

Assignee Name:: Applied Materials, Inc.

Street of mailing address:: 3050 Bowers Avenue

City of mailing address:: Santa Clara

State or Province of mailing address:: California

Country of mailing address:: United States

Postal or Zip Code of mailing address:: 95054

Attorney Docket No.: A8067/T51700 AMAT No.: 008067/DSM/HDP/CVD/JW

TTC No.: 016301-051700US

PATENT APPLICATION

REACTIVE ION ETCHING FOR SEMICONDUCTOR DEVICE FEATURE TOPOGRAPHY MODIFICATION

Inventor(s): Hemant P. Mungekar, a citizen of India, residing at

515 Boynton Ave, Apt 29 San Jose, CA 95117

Anjana M. Patel, a citizen of the United States, residing at 2178 ShadowRidge Way San Jose, CA 95138

Manoj Vellaikal, a citizen of the United States, residing at 3707 Poinciana Drive, #68 Santa Clara, CA 95051

Anchuan Wang, a citizen of the Peoples Republic of China, residing at 46728 Crawford Street, #6 Fremont, CA 94539

Bikram Kapoor, a citizen of India, residing at 2138 Santa Cruz Avenue Santa Clara, CA 95051

Assignee:

APPLIED MATERIALS, INC.

P.O. Box 450A

Santa Clara, CA, 95052 A Delaware corporation

Entity:

Large